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<input type="checkbox"/>	L1	gilbert.in. or popoff.in.	26154
<input type="checkbox"/>	L2	L1 and (signal or promoter)	3959
<input type="checkbox"/>	L3	L2 and clostrid\$	2

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<input type="checkbox"/>	L2	L1 and (signal or promoter)	3959
<input type="checkbox"/>	L3	L2 and clostrid\$	2
<input type="checkbox"/>	L4	clostrid\$.clm. and (signal or promoter).clm.	141
<input type="checkbox"/>	L5	L4 and perfringen\$	28
<input type="checkbox"/>	L6	L4 and perfringen\$.clm.	24
<input type="checkbox"/>	L7	l6 and p2	1
<input type="checkbox"/>	L8	l6 and p-2	0
<input type="checkbox"/>	L9	l5 and beta\$	19

END OF SEARCH HISTORY

Search  
Notes  
3-17-86

**United States Patent** [19]  
**Tso et al.**

[11] **Patent Number:** **5,004,692**  
[45] **Date of Patent:** **Apr. 2, 1991**

[54] **CLONING AND EXPRESSION OF  
PHOSPHOLIPASE C GENES**

- [75] **Inventors:** J. Yun Tso, Menlo Park; Cary L.  
Queen, Palo Alto, both of Calif.
- [73] **Assignee:** Protein Design Labs, Inc., Mountain  
View, Calif.
- [21] **Appl. No.:** 132,387
- [22] **Filed:** Dec. 15, 1987
- [51] **Int. Cl.<sup>3</sup>** ..... C12N 9/00; C12N 9/14
- [52] **U.S. Cl.** ..... 435/183; 435/195;  
435/240.1; 435/252.3; 435/252.33; 435/320.1;  
536/27
- [58] **Field of Search** ..... 435/320, 68, 70, 172.3,  
435/183, 195, 240.1, 849; 536/27

[56] **References Cited :**

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*Primary Examiner*—Richard A. Schwartz  
*Attorney, Agent, or Firm*—Townsend and Townsend

[57] **ABSTRACT**

Improved means for producing Clostridium Phospholipase C (PL) polypeptides based on the cloning and expression of recombinant DNA segments containing Clostridium PLC genes and fragments. The DNA segments are operably linked to host specific expression control sequences for exogenous production of Clostridium PLC, or fragments thereof, substantially free from naturally-associated Clostridium gene products.

**18 Claims, 4 Drawing Sheets**

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Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: WO 9915669 A2

Using default format because multiple data bases are involved.

L3: Entry 1 of 2

File: EPAB

Apr 1, 1999

PUB-NO: WO009915669A2

DOCUMENT-IDENTIFIER: WO 9915669 A2

TITLE: CLOSTRIDIUM TOXIN, AND METHOD FOR PREPARING IMMUNOGENIC COMPOSITIONS

PUBN-DATE: April 1, 1999

## INVENTOR-INFORMATION:

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COUNTRY

GIBERT, MARYSE

FR

POPOFF, MICHEL-ROBERT

FR

INT-CL (IPC): C12 N 15/31; C12 N 15/11; C12 N 1/21; C07 K 14/33; C12 N 15/74;  
A61 K 39/08

EUR-CL (EPC): C07K014/33; C12N015/74

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 2. Document ID: AU 2002301780 A1, FR 2768747 A1, WO 9915669 A2, AU 9891702 A, ZA 9808570 A, EP 1015579 A2, AU 750847 B, NZ 503537 A

L3: Entry 2 of 2

File: DWPI

Mar 6, 2003

DERWENT-ACC-NO: 1999-217498

DERWENT-WEEK: 200433

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TITLE: Clostridium beta2 toxin gene promoter and signal sequence - useful against toxins from Clostridium perfringensINVENTOR: GIBERT, M; POPOFF, M ; POPOFF, M R

PRIORITY-DATA: 1997FR-0011710 (September 19, 1997), 2002AU-0301780 (November 1, 2002)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
AU 2002301780 A1	March 6, 2003		000	C12N015/31
FR 2768747 A1	March 26, 1999	F	046	C12N015/31
WO 9915669 A2	April 1, 1999	F	000	C12N015/31

<u>AU 9891702 A</u>	April 12, 1999		000	C12N015/31
<u>ZA 9808570 A</u>	March 29, 2000		041	C07K000/00
<u>EP 1015579 A2</u>	July 5, 2000	F	000	C12N015/11
<u>AU 750847 B</u>	August 1, 2002		000	C12N015/31
<u>NZ 503537 A</u>	December 20, 2002		000	C12N015/31

INT-CL (IPC): A61 K 39/02; A61 K 39/08; C07 K 0/00; C07 K 14/33; C12 N 1/21;  
C12 N 5/10; C12 N 15/11; C12 N 15/31; C12 N 15/74; C12 P 21/02

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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Term	Documents
CLOSTRID\$	0
CLOSTRID	19
CLOSTRIDA	5
CLOSTRIDACEAE	2
CLOSTRIDAE	1
CLOSTRIDAL	17
CLOSTRIDASPPA	1
CLOSTRIDDIUM	2
CLOSTRIDEA	1
CLOSTRIDES	4
(L2 AND CLOSTRID\$ ) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	2

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